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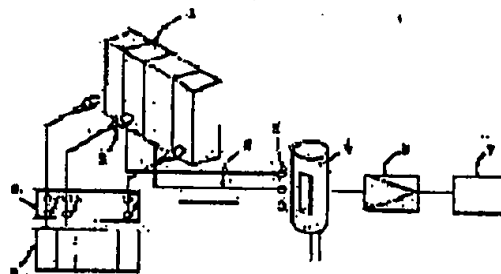
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(54) FLUORESCENCE DETECTION METHOD

(57)Abstract:

PURPOSE: To eliminate an apparatus which is related to the conveyance or the movement of a sample or a device and to make an apparatus compact as a whole by a method wherein a high-brightness LED as an excitation light source is attached to every sample container and fluorescence which is generated by a sample is gathered by a fiber and measured with a photomultiplier tube.

CONSTITUTION: For example, an excitation light source using a green LED is attached to each of 10 pieces of sample containers 1, and it is connected to a constant-current power supply 8 via a switching circuit 6. In order to irradiate a sample individually inside every sample container 1, the switching circuit 6 is changed over sequentially, and the constant-current power supply 8 is used in order to supply a definite current. Fluorescence which is generated from the sample inside every container 1 is guided to an optical fiber 3 via a lens system or directly, and it is condensed in a photomultiplier tube 4. Its output is processed by an electronic circuit 5 such as an analog amplifier circuit or the like, it is changed into a signal by a data processing part 7, and it is then output.



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